



Installation and Setup Guide

RFID UHF Anti-Theft System

Fresh USA, Inc.

Detailed guide for mounting, connection, and initial setup



Mono / Overhead Anti-Theft System

This guide will help you correctly install the antenna-reader, connect the strobe alarm, perform basic configuration, and prepare the system for operation.



What you will get



Reliable protection against unauthorized removal



Contactless detection of RFID UHF tags



Standalone operation or connection to Fresh USA software



Strobe alarm

Loud audible and visual alert for alarm notification.



IMPORTANT



Install the reader in the exit direction from the protected area.



Follow the arrow direction on the antenna housing.



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Package Contents

and Installation Preparation

Package contents

- RFID UHF antenna-reader
- 110/220 V power supply
- Mounting bracket and fasteners
- Strobe alarm
- If configuration is required:
Windows PC/laptop and
RS232 (COM)-to-USB adapter



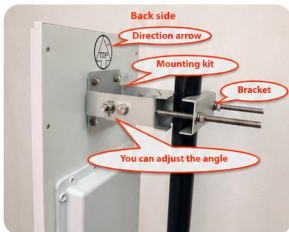
Step 1. Bracket installation

Fasten the mounting bracket above the doorway. Concealed mounting behind the ceiling is acceptable if there is no nearby metal surface that could shield the signal.



Step 2. Antenna-reader installation

Attach the antenna-reader to the bracket. Pay attention to the arrow on the back side of the antenna. The arrow must point from the protected area toward the exit. The top part with the arrow should be positioned higher, and the reader should have a slight angle.



Installation location recommendations

- Install the device above the passage area
- Avoid large metal surfaces near the antenna
- Keep the arrow direction correct
- Check bracket rigidity after installation



Why this matters

Correct reader orientation improves stable RFID UHF tag detection and helps the system correctly determine the removal direction.



Strobe Alarm Connection

and Audible Alert Setup



Before connection

Switch off the system power before wiring.
Connect wires according to the markings
and the diagram.

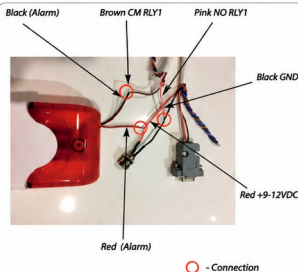


Step 3. Strobe alarm wiring

Connect the strobe alarm to the antenna-reader cable using the 12 V wiring, as shown in the diagram. Observe polarity and relay contact assignments.

Wire labels

- Black (Alarm) — alarm line
- Red (Alarm) — alarm line
- Brown CM RLY1 — common relay contact
- Pink NO RLY1 — normally open relay contact
- Black GND — ground
- Red +9-12VDC — power



Follow the factory wire markings of your kit.



Step 4. Volume adjustment

Open the strobe alarm cover and set the desired volume level. After adjustment, close the housing.



Place the strobe alarm in a visible location



Route and protect wires carefully



Perform an alarm test after connection



The alarm volume can be adjusted



Power, Configuration and PC / Network Connection

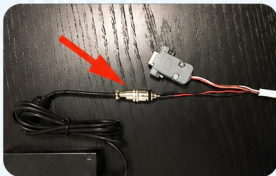


What you should know

With correct settings, the system responds only to RFID UHF tags paired with the reader or added to the database.

Step 5. Power connection

Connect the power supply to a 110/220 V outlet, then connect the power supply output to the antenna-reader connector. Make sure the connector is firmly attached.



Step 6. Additional configuration

To change reader parameters, use the "Configurator" application for Windows OS. To connect the reader to a computer, use an RS232 (COM)-to-USB adapter.



Available configuration parameters

- Reader power (reading range)
- Operating frequency
- Tag binding code
- Reader IP address and port
- Combining multiple readers into one network



Step 7. Network connection

If the system is used with software and a network, connect the reader through a router and configure TCP/IP (Ethernet) according to the separate instruction. Assign a unique IP address and port to each reader in the network.



Note

When working with Fresh USA software, follow the separate instruction for network setup and licensing.





System Check

and Important Recommendations



WARNING!

Always pay attention to the arrow at the top of the antenna. The reader must be installed according to the instruction — **from the protected area toward the exit**.



Exit
Direction



After installation, check:

- Secure mounting of the bracket and reader
- Correct arrow direction on the antenna
- Power connection and strobe alarm operation
- System response to a paired tag
- No excessive metal obstacles near the antenna



System test

Make a test pass with an RFID UHF tag paired with the reader or entered into the database, and verify the correct system response. If needed, recheck the reader orientation, power, and settings.



Typical mistakes

- Incorrect arrow direction
- Installation near large metal surfaces
- Weak or misaligned mounting
- Connection without switching off power first
- No test pass after installation



Fresh USA support

If you need additional configuration, software integration, or TCP/IP network assistance, contact Fresh USA.



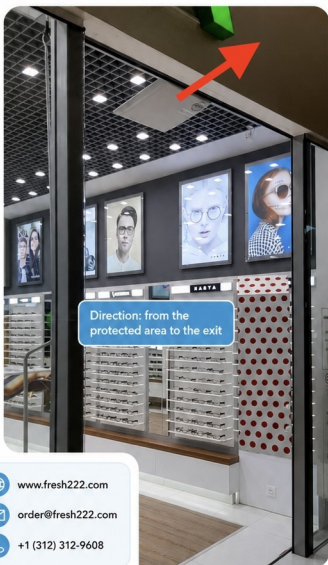
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